



DEPARTMENT OF THE NAVY

COMMANDER  
NAVY REGION HAWAII  
850 TICONDEROGA ST STE 110  
JBPHH, HAWAII 96860-5101

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Ser N45/883  
November 19, 2015

CERTIFIED NO: 7014 2000 0002 7214 3084

Mr. Richard Takaba  
Hawaii State Department of Health  
Environmental Management Division  
Solid and Hazardous Waste Branch  
Underground Storage Tank Section  
919 Ala Moana Boulevard, Room 212  
Honolulu, HI 96814

Dear Mr. Takaba:

SUBJECT: RED HILL TANK COMPLEX  
THIRD QUARTER 2015 - QUARTERLY GROUNDWATER MONITORING  
REPORT, INSIDE TUNNEL WELLS  
FACILITY ID NO. 9-102271 / RELEASE ID NO. 99051, 010011,  
020028, AND 140010

A Navy contractor, Environmental Science International, Inc. (ESI), collected groundwater samples from four wells and one sampling point at the Red Hill Fuel Storage Facility on July 20 and 21, 2015. The groundwater samples were analyzed for petroleum constituents. The groundwater monitoring report is being submitted as Enclosures 1 and 2.

Laboratory analytical results indicated TPH-d was detected in the groundwater beneath the Facility at concentrations that were below the Site-Specific Risk Based Level (SSRBL) of 4,500 mg/L. TPH-d was detected at concentrations of 3,900 and 3,200 mg/L at monitoring well RHMW02.

TPH-d was detected at monitoring wells RHMW01, RHMW03, and RHMW05 at concentrations below the SSRBL (150, 130, and 18 mg/L, respectively). Concentrations were within historical ranges. In addition, the chromatographic patterns for RHMW01, RHMW02, and RHMW03 were inconsistent with the profile of the reference fuel standard.

TPH-d was detected at sampling point RHMW2254-01 at an estimated concentration of 17 mg/L, which was below the DOH Tier 1 EAL of 100 mg/L.

TPH-o was detected at all four groundwater wells and at sampling point RHMW2254-01. Concentrations detected at wells RHMW02 and RHMW03 were above the Final DOH Tier 1 EAL of 100 mg/L, which is based on the DOH EAL for gross contamination. However, TPH-o concentrations detected at wells RHMW02 and RHMW03 were below the DOH EAL for Drinking Water Toxicity (4,400 ug/L), which is considered protective of human health. In addition, the chromatographic pattern for RHMW02

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and RHMW03 were inconsistent with the profile of the reference fuel standard.

Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene were present in monitoring well RHMW02 at concentrations above the DOH Tier 1 EALs.

The enclosed groundwater monitoring report also includes analytical data for an additional groundwater sampling event that was conducted in June 2015 in response to the April 2015 groundwater sampling results. Groundwater samples were collected from monitoring wells RHMW01, RHMW02, and RHMW05 and analyzed for TPH-d, TPH-o, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene. TPH-d concentrations were below the SSRBL.

The groundwater monitoring wells were assessed monthly for the presence of free product. No free product was observed.

Quarterly sampling will continue for the four groundwater monitoring wells and one sampling point inside the tunnel.

If there are any questions regarding this matter, or if more information is needed, please contact Ms. Raelynn Kishaba at (808) 471-1171, extension 233.

Sincerely,



AARON Y. HOENTIS  
Director  
Regional Environmental Department  
By direction of the  
Commander

- Enclosure:
1. Final Third Quarter 2015 - Quarterly Groundwater Monitoring Report, Inside Tunnel Wells, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oahu, Hawaii of November 2015 (1 hard copy)
  2. Final Third Quarter 2015 - Quarterly Groundwater Monitoring Report, Inside Tunnel Wells, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oahu, Hawaii of November 2015 (1 CD)

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Copy to: Ms. Joanna Seto, DOH Safe Drinking Water Branch (1 CD)  
LCDR Andrew Lovgren, NAVSUP Fleet Logistics Center Pearl  
Harbor (1 hard copy, 1 CD)  
Mr. Rockne Krill, DLA Pacific (1 hard copy, 1 CD)  
Ms. Arleen Mizuno, NAVFAC HI EV1 (1 CD)  
Mr. Bob Pallarino, U.S. EPA Region 9 Land Division  
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